

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : YAMADA TADASHI

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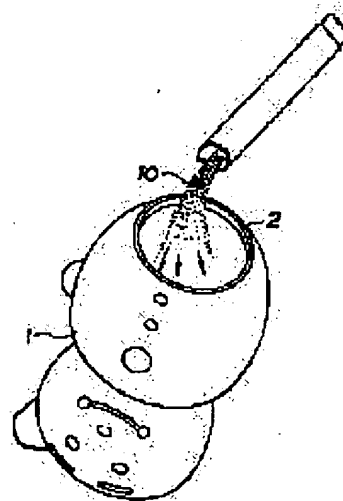
(72)Inventor : YAMADA TADASHI

(54) ORNAMENT FORMED BY UTILIZING HIGH-MOLECULAR WEIGHT POLYMER WATER ABSORPTIVE RESIN

(57)Abstract:

PURPOSE: To provide an ornament which has not only a function as a mere ornament but a function to satisfy the mind of a contrivance by using a high- molecular weight polymer water absorptive resins.

CONSTITUTION: This ornament is composed of a transparent or partly opaque container body 1 which has a mouth part 2 and a cap to close this mouth part 2 and exhibits the form of an animal, doll, etc., and a moistureproof packaging bag which is packed with the fine granular high-molecular weight water absorptive resins 10. The ornament is used by housing the high-polymer water absorptive resins into the container body and adding water thereto.



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CLAIMS

[Claim(s)]

[Claim 1] the transparence which is equipped with the cap which lids the regio oralis and the regio oralis, and presents the gestalt of an animal, a doll, etc., or a part -- the ornament which used the macromolecule water-absorption resin characterized by using it, adding water after having come out with the opaque body of a container, and the dampproof package bag filled up with microparticulate macromolecule water absorption resin, constituting and containing macromolecule water absorption resin on the body of a container.

[Claim 2] Said macromolecule water absorption resin is the ornament which is the water absorption polymer of a polyacrylate system and used the macromolecule water absorption resin according to claim 1 which is 25 to 35 times the water absorption power of this, and is 2 to 3 times (minute amount fine particles / added water after the volume ratio = water absorption at the time of making it absorb water 10 times) the expansion scale factor of this with 80 to 120 times, and 0.9% brine by the average grain size 70-140, bulk specific gravity 0.90-1.00, 5% or less of water content, and deionized water.

[Claim 3] Said body of a container is an ornament using the macromolecule water absorption resin according to claim 1 whose transparent body is either synthetic resin, glass or its combination and whose opaque body is either synthetic resin, wood, a stone, a ceramic, a metal or its combination.

[Claim 4] Said package bag is an ornament using the macromolecule water absorption resin according to claim 1 which comes to fill up macromolecule water absorption resin what added the pigment.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention is the ornament which used the doll, the animal, etc. as the motif, and relates to the high ornament of the hobby nature which has only as an ornament the function to which an idea alignment is satisfied.

[0002]

[Description of the Prior Art] The ornament of the tank which reproduced in false signs that a fish swam in the inside of a tank with a magnet or a dc-battery in recent years is known. Although illustration is omitted, it shows as if it swam in the inside of a tank in the actuation which arranged the magnetic substance in the fish made of synthetic resin, on the other hand, arranged in the background of a case the magnetic substance with which polarities differ, and used the repulsive force (suction force).

[0003] However, even if it does not actually breed tropical fish, it is one of the spread factors that the same ambient atmosphere can be enjoyed.

[0004] Moreover, it is the small ornament which carried out mimicry of the wild bird, and if vibration is added to a body by the oscillating sensing sensor, the ornament which generates the cry of the bird which carried out mimicry only of the fixed time amount from Voice IC is known.

[0005] Thus, the ornament which added other functions of satisfying not only the

function as a mere ornament but an idea alignment in recent years comes to be sold, and since it is an expensive rank, a purchase layer is shifting to a candidate or a member of society from the younger age groups, such as a child.

[0006]

[Problem(s) to be Solved by the Invention] Said tank is not being able to purchase easily [it is expensive and]. Moreover, the power source is needed and cost starts using after purchase, continuing. Although the ornament of a wild bird is not a tank, either, it is expensive, and since a power source is moreover needed, after purchase requires cost.

[0007] This invention aims at offer of the ornament which moreover satisfies the idea alignment of an adult or a child to a low price.

[0008]

[Means for Solving the Problem] the transparence which this invention is equipped with the cap which lids the regio oralis and the regio oralis, and presents the gestalt of an animal, a doll, etc. -- or it is an ornament using the macromolecule water absorption resin characterized by the opaque body of a container, the dampproof package bag filled up with microparticulate macromolecule water absorption resin, and using it, adding water after coming out and constituting and containing macromolecule water absorption resin on the body of a container a part.

[0009] Furthermore, in 80 to 120 times, and 0.9% brine, said macromolecule water absorption resin is the water absorption polymer of a polyacrylate system, is 25 to 35 times the water absorption power of this in the average grain size of 70-140 micrometers, bulk specific gravity 0.90-1.00, 5% or less of water content, and deionized water, and is 2 to 3 times (minute amount fine particles / added water after the volume ratio = water absorption at the time of making it absorb water 10 times) the expansion scale factor of this.

[0010] Moreover, the transparent body is either synthetic resin, glass or its combination, and the opaque body forms said body of a container in either synthetic resin, wood, a stone, a ceramic, a metal or its combination.

[0011] Furthermore, said package bag fills up macromolecule water absorption resin with what added the pigment, and is characterized by things.

[0012]

[Function] After removing the cap of the body of a container and throwing in macromolecule water absorption resin in a body from a bag, water is added further. Macromolecule water absorption resin absorbs water and expands the volume dozens times.

[0013] Signs that it expands after adding water are in the wonderful scene in which clouds and snow are generated suddenly, and after the situation can observe through the body of a container and moreover contains moisture enough, it is identified as an ornament with which the body of a container was filled up with snow or ice.

[0014]

[Example] The perspective view in which drawing 1 shows the body of a container, and drawing 2 are the same, and a sectional view, the perspective view in which drawing 3 shows an example of a dampproof package bag, drawing 4 - drawing 5 are explanatory views at the time of use shown one example.

[0015] The transparent body, the translucent body, or a part is the opaque body, and the transparent body is either synthetic resin, glass or its combination, and the opaque body

of the body 1 of a container is either synthetic resin, wood, a stone, a ceramic, a metal or its combination.

[0016] Moreover, although what constituted the whole gestalt by using as a motif the characters generally loved, such as a doll and an animal, is desirable, it does not limit to it.

[0017] The illustrated example is the body 1 of a container which formed [whole / most] with the transparent body, further, formed the regio oralis 2 in the base, and has fitted in and stopped the cap 3 to this regio oralis 2. The case where the regio oralis 2 is a pars basilaris ossis occipitalis although the upper part, a flank, etc. change the location suitably with a motif is suitable as an ornament.

[0018] In addition, although the example which the cap 3 presented cross-section convex and fitted into the regio oralis 2 by the friction joint is shown, a fixed means is chosen by the cross-section configuration of cap 3 the optimal, and, generally is fixed by the friction joint, concavo-convex engagement, etc.

[0019] Incidentally, although illustration is omitted, it cannot be overemphasized that it includes forming said opaque body in the front face of a container body of the transparent body by giving paint.

[0020] The body 1 of a container and the package bag 5 used for coincidence are dampproof bags formed with polyethylene etc., it presents the shape of a stick filled up with 5g giant-molecule water absorption resin 10 as an example, and it forms it so that it may be easy to supply to the above-mentioned regio oralis 2.

[0021] On the other hand, macromolecule water absorption resin 10 is the water absorption polymer of a white polyacrylate system, and is 25 to 35 times the water absorption power of this in 80 to 120 times, and 0.9% brine at the average grain size of 70-140 micrometers, bulk specific gravity 0.90-1.00, 5% or less of water content, and deionized water, and one 2 to 3 times (minute amount fine particles / added water after the volume ratio = water absorption at the time of making it absorb water 10 times) the expansion scale factor of this and its appearance are white.

[0022] And although macromolecule water absorption resin 10 can generally absorb 1000 times [hundreds to] as many water as this, this invention adopts what absorbs the 120 times [60 to] as many water of the volume as this. Incidentally, although macromolecule water absorption resin 10 emits gradually the water absorbed when the exterior dried, it has the property which does not emit water even if it applies a pressure.

[0023] Furthermore, even if it absorbs water, it does not become gel, but the shape of a particle excellent in the fluidity is maintained, a water absorption rate is quick, and there is very little dissolution in water.

[0024] The macromolecule water absorption resin 10 of this invention has little attached groundwater between the polymer particles which absorbed water, and since a fluidity is secured by a particle being mutually slippery, there being and an opening being generated, when it is used in the state of water absorption of about 30 to 70 times, it is effective.

[0025] And if it supplies into the stirred water and is left for 1 to 2 minutes when making macromolecule water absorption resin 10 absorb water, water will be absorbed by macromolecule water absorption resin 10, the microsome will expand in each, and the whole volume will increase sharply.

[0026] It is as follows when the description of the macromolecule water absorption resin

suitable for this invention is shown.

[0027]

And this invention removes the cap 3 of said body 1 of a container, and after it throws in macromolecule water absorption resin from the regio oralis 2, it pours out water 11 from the package bag 5 appended separately. Then, each particle of said macromolecule water absorption resin 10 absorbs water, and the volume is made to amplify sharply after about 1 minute.

[0028] If the increasing state of this volume is observed from the outside of the body 1 of a container, the wonderful scene of a white particle expanding silently and filling the inside of the body 1 of a container can be witnessed as if it was seeing magic, and an idea alignment will greatly be tickled (drawing 6 a-c).

[0029] If water absorption is completed and the body 1 of a container is filled with the particle of macromolecule water absorption resin 10, cap 3 will be inserted in the regio oralis and fitting immobilization will be carried out. In this condition, water is accumulated in each particle, like this invention, although macromolecule water absorption resin 10 emits gradually the water absorbed when the exterior dried as a usual property, where the body of a container is sealed with cap 3, it does not dry and it maintains a water retention condition.

[0030] Therefore, after pouring in water and making the volume increase, it can be daily used as an ornament. In addition, if signs that it expands are observed again, the macromolecule water absorption resin 10 within the body 1 of a container will all be eliminated, and if macromolecule water absorption resin 10 is thrown in in the body of a container and water is again poured like the above from the package bag 5, signs that macromolecule water absorption resin 10 expands by water absorption will be seen.

[0031] Furthermore, giant-molecule water absorption resin 10 is not limited to said white,

the pigment corresponding to the motif of the body of a container is added, and it cannot be overemphasized that the multiple color from which color differs [other monochrome or each of color] can be expressed.

[0032]

[Effect] Moreover, this invention has offered the ornament which has a very new function with the above mentioned new means by the low price. namely, wonderful signs that it expands sharply according to a water absorption operation of macromolecule water absorption resin only by putting water into the body of a container afterwards by combining the body of a container, water, and macromolecule water absorption resin -- observable -- an idea alignment not only being satisfied to the fresh surprise at that time etc. but handling -- very -- easy -- anyone -- although -- it can use.

[0033] And since low cost-ization by mass production method was realized, he is a child. The application of former [not only spreading regardless of an adult but] and macromolecule water absorption resin is manufacture of a high strength concrete, and engineering works chiefly. It enabled it to be equal to admiration by using as an ornament to have been the application which cannot touch public notices, such as a water cutoff agent for construction, a dew condensation inhibitor of building materials, dehydration of a water solution, a water retention agent for horticulture, and a cold reserving material.

[0034] Moreover, the gestalt of the body of a container is changed freely, giant-molecule water absorption resin and a pigment are used, and this invention has the versatility which can respond to all demands of a need person, such as making a sand picture cause etc., if it is made not only monochrome but multiple color according to the motif of the body of a container.

[0035] Furthermore, an ornament with still higher fanciness can be embodied by using colored or multicolor macromolecule water absorption resin.

TECHNICAL FIELD

[Industrial Application] This invention is the ornament which used the doll, the animal, etc. as the motif, and relates to the high ornament of the hobby nature which has only as an ornament the function to which an idea alignment is satisfied.

PRIOR ART

[Description of the Prior Art] The ornament of the tank which reproduced in false signs that a fish swam in the inside of a tank with a magnet or a dc-battery in recent years is known. Although illustration is omitted, it shows as if it swam in the inside of a tank in the actuation which arranged the magnetic substance in the fish made of synthetic resin, on the other hand, arranged in the background of a case the magnetic substance with which polarities differ, and used the repulsive force (suction force).

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EFFECT OF THE INVENTION

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MEANS

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OPERATION

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EXAMPLE

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[0023] Furthermore, even if it absorbs water, it does not become gel, but the shape of a particle excellent in the fluidity is maintained, a water absorption rate is quick, and there is very little dissolution in water.

[0024] The macromolecule water absorption resin 10 of this invention has little attached groundwater between the polymer particles which absorbed water, and since a fluidity is secured by a particle being mutually slippery, there being and an opening being generated, when it is used in the state of water absorption of about 30 to 70 times, it is effective.

[0025] And if it supplies into the stirred water and is left for 1 to 2 minutes when making macromolecule water absorption resin 10 absorb water, water will be absorbed by macromolecule water absorption resin 10, the microsome will expand in each, and the whole volume will increase sharply.

[0026] It is as follows when the description of the macromolecule water absorption resin suitable for this invention is shown.

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And this invention removes the cap 3 of said body 1 of a container, and after it throws in macromolecule water absorption resin from the regio oralis 2, it pours out water 11 from the package bag 5 appended separately. Then, each particle of said macromolecule water absorption resin 10 absorbs water, and the volume is made to amplify sharply after about 1 minute.

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[0029] If water absorption is completed and the body 1 of a container is filled with the particle of macromolecule water absorption resin 10, cap 3 will be inserted in the regio oralis and fitting immobilization will be carried out. In this condition, water is accumulated in each particle, like this invention, although macromolecule water absorption resin 10 emits gradually the water absorbed when the exterior dried as a usual property, where the body of a container is sealed with cap 3, it does not dry and it maintains a water retention condition.

[0030] Therefore, after pouring in water and making the volume increase, it can be daily used as an ornament. In addition, if signs that it expands are observed again, the macromolecule water absorption resin 10 within the body 1 of a container will all be eliminated, and if macromolecule water absorption resin 10 is thrown in in the body of a container and water is again poured like the above from the package bag 5, signs that macromolecule water absorption resin 10 expands by water absorption will be seen.

[0031] Furthermore, giant-molecule water absorption resin 10 is not limited to said white, the pigment corresponding to the motif of the body of a container is added, and it cannot

be overemphasized that the multiple color from which color differs [other monochrome or each of color] can be expressed.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The perspective view showing an example of the body of a container of this invention.

[Drawing 2] A sectional view same as the above.

[Drawing 3] The perspective view showing a package bag.

[Drawing 4] The perspective view showing an example at the time of use.

[Drawing 5] A perspective view same as the above.

[Drawing 6] a-c is the explanatory view showing the expansion condition of the macromolecule water absorption resin after water absorption.

[Description of Notations]

1 Body of Container

2 Regio Oralis

3 Cap

5 Package Bag

10 Macromolecule Water Absorption Resin

11 Water

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(71)出願人 594186810

山田 正

東京都世田谷区祖師谷 1-14-25

(72)発明者 山田 正

東京都世田谷区祖師谷 1-14-25

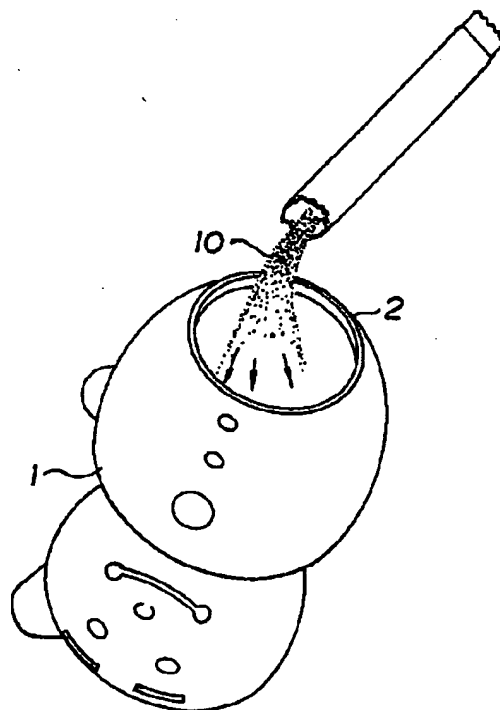
(74)代理人 弁理士 朝倉 正幸 (外1名)

(54)【発明の名称】 高分子吸水樹脂を利用した置物

(57)【要約】

【目的】 本願発明は、単に、置物としてだけでなく、高分子吸水樹脂を使用して趣向心を満足させる機能を有する趣味性の高い置物の提供を目的とする。

【構成】 本願発明は、口部及び口部を閉蓋するキャップを備え、かつ動物や人形などの形態を呈する透明又は一部不透明の容器本体と、微粒状の高分子吸水樹脂を充填した防湿性包装袋と、で構成し、容器本体に高分子吸水樹脂を収納した後、水を加えて使用することを特徴とした高分子吸水樹脂を利用した置物である。



【特許請求の範囲】

【請求項1】 口部及び口部を閉蓋するキャップを備え、かつ動物や人形などの形態を呈する透明又は一部不透明の容器本体と、

微粒状の高分子吸水樹脂を充填した防湿性包装袋と、で構成し、容器本体に高分子吸水樹脂を収納した後、水を加えて使用することを特徴とした高分子吸水樹脂を利用した置物。

【請求項2】 前記高分子吸水樹脂は、ポリアクリル酸塩系の吸水ポリマーであり、平均粒度70～140、かさ比重0.90～1.00、含水率5%以下、脱イオン水で80～120倍、0.9%食塩水で25～35倍の吸水能で、膨張倍率2～3倍（10倍吸水させた時の容積比＝吸水後の微量粉体／添加した水）である請求項1記載の高分子吸水樹脂を利用した置物。

【請求項3】 前記容器本体は、透明体が合成樹脂又はガラスあるいはその組合わせのいずれかであり、不透明体が合成樹脂、木材、石材、セラミック、金属あるいはその組合わせのいずれかである請求項1記載の高分子吸水樹脂を利用した置物。

【請求項4】 前記包装袋は、高分子吸水樹脂に顔料を添加したものを充填してなる請求項1記載の高分子吸水樹脂を利用した置物。

【発明の詳細な説明】

【0001】

【産業上の利用分野】 本発明は、人形や動物等をモチーフとした置物であり、単に、置物としてだけでなく、趣向心を満足させる機能を有する趣味性の高い置物に係る。

【0002】

【従来の技術】 近年、水槽内を磁石やバッテリーによって魚が遊泳する様子を擬似的に再現した水槽の置物が知られている。図示を省略するが、合成樹脂製の魚体に磁性体を配設し、一方、ケースの背景には極性の異なる磁性体を配設してその反発力（吸引力）を利用した動作で水槽内を遊泳するかのように見せている。

【0003】 しかし、実際に熱帯魚を飼育しなくても同様の雰囲気を楽しめることが普及要因の一つである。

【0004】 また、野鳥を擬態した小さな置物であって、振動感知センサーにより本体に振動を加えると一定時間だけ音声ICから擬態した鳥の鳴き声を発生する置物が知られている。

【0005】 このように近年では、単なる置物としての機能だけでなく、趣向心を満足させる等の他の機能を付加した置物が販売されるようになり、高価なことから購買層は子供などの若年層から学生や社会人に移行してきている。

【0006】

【発明が解決しようとする課題】 前記水槽は、高価であって容易に購入できるというものではない。また、電源

を必要としており、購入後も継続して使用するには経費に係る。野鳥の置物も水槽ほどではないが高価であり、しかも電源を必要とするので購入後も経費に係る。

【0007】 本発明は、低価格でしかも大人や子供の趣向心を満足させる置物の提供を目的とする。

【0008】

【課題を解決するための手段】 本発明は、口部及び口部を閉蓋するキャップを備え、かつ動物や人形などの形態を呈する透明又は一部不透明の容器本体と、微粒状の高分子吸水樹脂を充填した防湿性包装袋と、で構成し、容器本体に高分子吸水樹脂を収納した後、水を加えて使用することを特徴とした高分子吸水樹脂を利用した置物である。

【0009】 さらに、前記高分子吸水樹脂は、ポリアクリル酸塩系の吸水ポリマーであり、平均粒度70～140μm、かさ比重0.90～1.00、含水率5%以下、脱イオン水で80～120倍、0.9%食塩水で25～35倍の吸水能で、膨張倍率2～3倍（10倍吸水させた時の容積比＝吸水後の微量粉体／添加した水）である。

【0010】 また、前記容器本体は、透明体が合成樹脂又はガラスあるいはその組合わせのいずれかであり、不透明体が合成樹脂、木材、石材、セラミック、金属あるいはその組合わせのいずれかで形成している。

【0011】 さらに、前記包装袋は、高分子吸水樹脂に顔料を添加したものを充填してことを特徴としている。

【0012】

【作用】 容器本体のキャップを外し、袋から高分子吸水樹脂を本体内に投入した後、さらに、水を加える。高分子吸水樹脂は、水を吸収してその体積を数十倍に膨張する。

【0013】 水を加えてから膨張する様子があたかも雲や雪が突然生成される不思議な光景でであり、しかも、その様子が容器本体を通して観察でき、水分を充分含んだ後は、雪や氷で容器本体が充填されたような置物として識別される。

【0014】

【実施例】 図1は容器本体を示す斜視図、図2は同じく断面図、図3は防湿性包装袋の一例を示す斜視図、図4～図5は使用時の一例示説明図である。

【0015】 容器本体1は、透明体又は半透明体ないしは一部が不透明体であり、透明体が合成樹脂又はガラスあるいはその組合わせのいずれかであり、また、不透明体が合成樹脂、木材、石材、セラミック、金属あるいはその組合わせのいずれかである。

【0016】 また、人形や動物など一般に親しまれているキャラクターをモチーフとして全体の形態を構成したものが望ましいがそれに限定しない。

【0017】 図示した事例は、全体のほとんどを透明体で形成した容器本体1であり、さらに、底面に口部2を

形成し、この口部2にキャップ3を嵌合して閉止している。口部2は、モチーフによってその位置を上部や側部など適宜変更するが底部の場合が置物としては適している。

【0018】なお、キャップ3は、断面凸状を呈し、口部2に摩擦接合で嵌合した事例を示すが、キャップ3の断面形状によって固定手段は最適に選択され、一般には、摩擦接合、凹凸係合などで固定される。

【0019】ちなみに、図示を省略するが、前記不透明体は、透明体の容器本体表面にペイントを施すことで形成することを含むことはいうまでもない。

【0020】容器本体1と同時に使用される包装袋5は、ポリエチレンなどで形成した防湿性袋であり、一例として5グラムの高分子吸水樹脂10を充填したスティック状を呈し、上記口部2に投入し易いように形成している。

【0021】一方、高分子吸水樹脂10は、白色のポリアクリル酸塩系の吸水ポリマーであり、平均粒度70～140 μ m、かさ比重0.90～1.00、含水率5%以下、脱イオン水で80～120倍、0.9%食塩水で25～35倍の吸水能で、膨張倍率2～3倍（10倍吸水させた時の容積比＝吸水後の微量粉体／添加した*

*水）、外観が白色である。

【0022】そして、高分子吸水樹脂10は、一般的には数百倍から1000倍の水を吸収することができるが、本発明は体積の60倍から120倍の水を吸収するものを採用する。ちなみに、高分子吸水樹脂10は、外部が乾燥すると吸収した水を徐々に放出するが、圧力を加えても水を放出しない性質を有している。

【0023】さらに、吸水してもゲル状にならず、流動性に優れた微粒状を保ち、吸水速度が速く、水への溶解が極めて少ない。

【0024】本発明の高分子吸水樹脂10は、吸水したポリマー粒子間の付着水が少なく、粒子が互いに滑りあって空隙が生じることで流動性が確保されるので、30～70倍程度の吸水状態で使用すると効果がある。

【0025】そして、高分子吸水樹脂10に吸水させる場合は、攪拌した水の中へ投入して、1～2分放置すると、高分子吸水樹脂10に水が吸収されて、その各々の微粒体が膨張し、全体の体積が大幅に増加する。

【0026】本発明に適した高分子吸水樹脂の性状を示すと次の通りである。

【0027】

外 観	白色粉末
平均粒度	70～140 μ m
かさ比重	0.90～1.00
含水率	5%以下
pH	中性（0.1%分散液）
溶出率	1%以下（水への溶解）
吸水能	脱イオン水 60～120倍 0.9%食塩水 25～35倍
膨張倍率	2～3倍（10倍吸水させた時の容積比＝吸水後の微量粉体／添加した水）

そして、本発明は、前記容器本体1のキャップ3を外して、別添された包装袋5から高分子吸水樹脂を口部2から投入した後に水11を注ぐ。すると、約1分後には、前記高分子吸水樹脂10の各微粒が吸水して体積を大幅に増幅させる。

【0028】この体積の増加状態を容器本体1の外側から観察すると、まるで手品を見ているかのようにもくもくと白色の微粒が膨張して容器本体1内を満たしてゆく不思議な光景を目撃でき、趣向心を大いにくすぐられる

（図6a～c）。

【0029】吸水が終了して容器本体1が高分子吸水樹脂10の微粒で満たされたら、キャップ3を口部に挿入して嵌合固定する。この状態では、各微粒に水が蓄積されており、高分子吸水樹脂10は通常の性質として外部が乾燥すると吸収した水を徐々に放出するが本発明のように容器本体をキャップ3で密閉した状態では、乾燥することがなく保水状態を維持する。

【0030】したがって、水を注入して体積を増加させ

た後は、置物として日常的に使用することができる。なお、再度、膨張の様子を観察するのであれば、容器本体1内の高分子吸水樹脂10を残らず排除して、再び包装袋5から高分子吸水樹脂10を容器本体内に投入し、前記と同様に注水すれば高分子吸水樹脂10が吸水によって膨張する様子が見られる。

【0031】さらに、高分子吸水樹脂10は、前記白色に限定するものでなく、容器本体のモチーフに合致した顔料を添加して他の色彩の単色あるいはそれぞれが色彩の異なる多色を表現できることはいふまでもない。

【0032】

【効果】本発明は、前記した新規な手段によってきわめて斬新な機能を有する置物をしかも低価格で提供できた。すなわち、容器本体と水と高分子吸水樹脂とを組み合わせることによって、後から水を容器本体に入れるだけで、高分子吸水樹脂の吸水作用により大幅に膨張する不思議な様子を観察でき、その時の新鮮な驚きなどで趣向心を満足させられるだけでなく、取扱いがきわめて簡単であり、誰でもが利用できる。

【0033】しかも、大量生産による低コスト化を実現したので、子供 大人を問わず普及するだけでなく、従来、高分子吸水樹脂の用途がもっぱら高強度コンクリートの製造、土木 建築用の止水剤、建材の結露防止剤、水溶液の脱水、園芸用保水剤、蓄冷材などの人目に触れない用途であったのを置物として観賞に耐えられるよう

にした。

【0034】また、容器本体の形態を自由に変更して、高分子吸水樹脂と顔料を使用して、容器本体のモチーフに合わせて単色だけでなく多色にすればあたかも砂絵を惹起させるなど、本発明は、需要者のあらゆる要求に対応できる汎用性がある。

【0035】さらに、有色あるいは多色の高分子吸水樹脂を使用することでさらに装飾性の高い置物を具現できる。

【図面の簡単な説明】

【図1】本発明の容器本体の一例を示す斜視図。

【図2】同上断面図。

【図3】包装袋を示す斜視図。

【図4】使用時の一例を示す斜視図。

【図5】同上斜視図。

【図6】a～cは吸水後の高分子吸水樹脂の膨張状態を示す説明図。

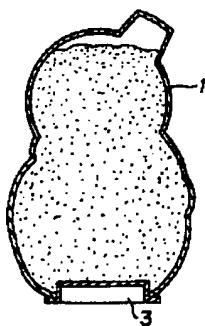
【符号の説明】

- 1 容器本体
- 2 口部
- 3 キャップ
- 5 包装袋
- 10 高分子吸水樹脂
- 11 水

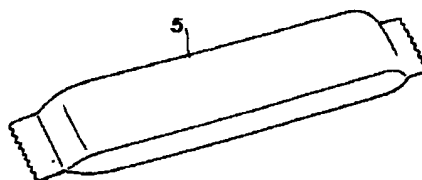
【図1】



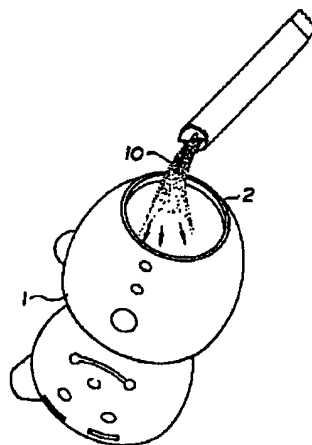
【図2】



【図3】

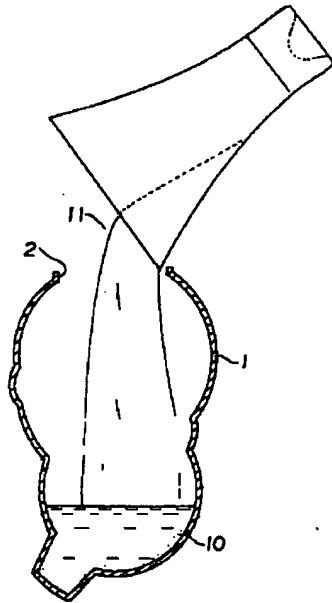


【図4】

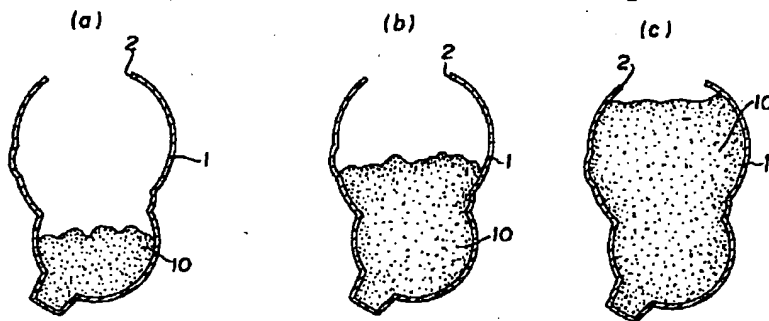


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【図5】



【図6】



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